

Form PTO-1449 (MODIFIED)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 078853-0311	SERIAL NO. <u>10/880582</u>
INFORMATION DISCLOSURE CITATION Date Submitted: April 6, 2004 (Use several sheets if necessary)		APPLICANT Roger A. Sabbadini	
		FILING DATE Herewith	GROUP ART UNIT <u>1654</u>

U.S. PATENT DOCUMENTS

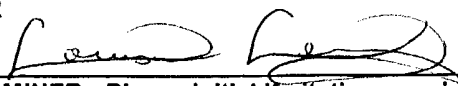
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
LL	A1	6,210,976	04/03/2001	Sabbadini	435	29	
	A2	5,929,039	07/27/1999	Woodcock, et al.			
	A3	5,677,288	10/14/1997	Marangos			
	A4	20010041688	11/15/2001	Waeber, et al.			
	A5	4,150,949	04/24/1979	Smith			
	A6	5,369,030	11/29/1994	Hannun, et al.			
LL	A7	5,631,394	05/20/1997	Wei, et al.	435	29	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO
LL	A8	WO 98/57179	10/12/2000	PCT	—	—	Y	
LL	A9	WO 01/80903	11/01/2001	PCT	—	—	✓	
LL	A10	WO 99/12890	03/18/1999	PCT	—	—		X
LL	A11	WO 99/41266	08/19/1999	PCT	—	—	Y	

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LL	A12	Abe, et al., "Glycosphingolipid depletion in Fabry disease lymphoblasts with potent inhibitors of glucosylceramide synthase," <i>Kidney International</i> , <u>57</u> :446-454 (2000)
	A13	Abe, et al., "Structural and stereochemical studies of potent inhibitors and glucosylceramide synthase and tumor cell growth," <i>Journal of Lipid Research</i> , <u>36</u> :611-621 (1995)
	A14	Abe, et al., "Use of Sulfoethyl Ether β -Cyclodextrin as a Vehicle for D-threo-1-Phenyl-2-decanoylamino-3-morpholinopropanol-Related Glucosylceramide Synthase Inhibitors," <i>Analytical Biochemistry</i> , <u>287</u> :344-347 (2000)
	A15	An, et al., "Characterization of a Novel Subtype of Human G Protein-coupled Receptor for Lysophosphatidic Acid," <i>J. Biol. Chem.</i> , <u>273</u> :7906-7910 (1998)
LL	A16	An, et al., "Identification of cDNAs encoding two G protein-coupled receptors for lysosphingolipids," <i>FEBS Letts.</i> , <u>417</u> :279-282 (1997)

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U.S. PATENT DOCUMENTS

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LC	A17	5,677,337	10/14/1997	Wei, et al.	435	29	
	A18	6,323,201	11/27/2001	Carson, et al.			
	A19	4,937,232	06/26/1990	Bell, et al.			
	A20	4,816,450	03/28/1989	Bell, et al.			
	A21	5,331,014	07/19/1994	Kimura, et al.			
	A22	5,137,919	08/11/1992	Igarashi, et al.			
	A23	5,151,360	09/29/1992	Handa, et al.			
	A24	6,187,562	02/13/2001	Duckworth, et al.			
	A25	5,851,782	12/22/1998	Hannun, et al.			
	A26	5,079,263	01/07/1992	Zeeck, et al.			
	A27	5,444,087	08/22/1995	Patel, et al.			
	A28	6,284,798	09/04/2001	Amtmann, et al.			
	A29	6,306,911	10/23/2001	Wachter, et al.			
	A30	6,051,598	04/18/2000	Shayman, et al.			
	A31	5,919,687	07/06/1999	Chatterjee			
	A32	5,663,404	09/02/1997	Igarashi, et al.			
	A33	5,260,288	11/09/1993	Igarashi, et al.			
	A34	5,391,800	02/21/1995	Igarashi, et al.			
	A35	5,430,160	04/04/1995	Boumendjel, et al.			
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	A37	5,912,144	06/15/1999	Au-Young, et al.			
	A38	6,130,067	10/10/2000	Tsui			
	A39	6,057,126	05/02/2000	Munroe, et al.			
	A40	5,585,476	12/17/1996	MacLennan, et al.			
	A41	6,140,060	10/31/2000	Chun, et al.			
LC	A42	5,989,803	11/23/1999	Tabas et al.	435	29	

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cc	A43	WO 00/00593	01/06/2000	PCT			X	
	A44	WO 00/21919	04/20/2000	PCT			X	
	A45	WO 01 37836A	5/31/2001	PCT			X	
	A46	WO 00/52173	09/08/2000	PCT			X	
	A47	WO 00/58448	10/05/2000	PCT				X
	A48	WO 00/58491	10/05/2000	PCT				X
	A49	WO 00/59517	10/12/2000	PCT			X	
	A50	WO 00/70028	11/23/2000	PCT			X	
	A51	WO 00/72833 A2	12/07/2000	PCT				X
	A52	WO 01/04108	01/18/2001	PCT			X	
	A53	WO 01/04139	01/18/2001	PCT			X	
	A54	WO 01/07418	02/01/2001	PCT			X	
	A55	WO 01/31029	05/03/2001	PCT			X	
	A56	WO 01/38295	05/31/2001	PCT				X
	A57	WO 01/55410	08/02/2001	PCT			X	
	A58	WO 01/57057	08/09/2001	PCT			X	
	A59	WO 01/60990	08/23/2001	PCT			X	
	A60	WO 01/72701	10/04/2001	PCT			X	
	A61	WO 01/85953	11/15/2001	PCT			X	
	A62	WO 97/44019	11/27/1997	PCT			X	
	A63	WO 98/03529	01/29/1998	PCT				X
	A64	WO 98/28445	07/02/1998	PCT			X	
	A65	WO 98/40349	09/16/1998	PCT				X
	A66	WO 99/07855	08/11/1998	PCT				X
cc	A67	WO 99/12890	03/18/1999	PCT				X
cc	A68	WO 99/16888	04/08/1999	PCT			X	

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<u>LL</u>	A77	An, et al., "Sphingosine 1-phosphate-induced cell proliferation, survival, and related signaling events mediated by G protein-coupled receptors Edg3 and Edg5," <i>J. Biol. Chem.</i> , <u>275</u> :288-296 (2000)
	A78	Ancellin, et al., "Extracellular export of sphingosine kinase-1 enzyme: Sphingosine 1 phosphate generation and the induction of angiogenic vascular maturation," <i>JBC Papers in Press</i> , Published 12/10/01 (manuscript M102841200).
	A79	Andrieu-Abadie, et al., "L-carnitine prevents doxorubicin-induced apoptosis of cardiac myocytes: role of inhibition of ceramide generation," <i>FASEB J.</i> , <u>13</u> :1501-1510 (1999)
	A80	Arenz, et al., "Manumycin A and Its Analogues Are Irreversible Inhibitors of Neutral Sphingomyelinase," <i>ChemiBiochem.</i> , <u>2</u> :141-143 (2001)
	A81	Arenz, et al., "Synthese des ersten selektiven irreveriblen Inhibitors der neutralen Sphingomyelinase," <i>Angew Chem.</i> , <u>112</u> :1498-1500 (2000) (GERMAN)
	A82	Arenz, et al., "Synthesis and Biochemical Investigation of Scyphostatin Analogues as Inhibitors of Neutral Sphingomyelinase," <i>Bioorganic & Medicinal Chemistry</i> , <u>9</u> :2901-2904 (2001)
	A83	Arenz, et al., "Synthesis of the First Selective Irreversible Inhibitor of Neutral Sphingomyelinase," <i>Eur. J. Org. Chem.</i> , 137-140 (2001)
	A84	Ariga, et al., "Role of Sphingolipid-mediated cell death in neurodegenerative diseases," <i>Journal of Lipid Research</i> , <u>39</u> :1-16 (1998)
	A85	Bajjalieh, et al., "Ceramide Kinase," <i>Methods in Enzymology</i> , <u>311</u> :207-215 (1999)
	A86	Bawab, et al., "Molecular Cloning and Characterization of a Human Mitochondrial Ceramidase," <i>J. Biol. Chem.</i> , <u>275</u> :21508-21513 (2000)
	A87	Bernardo, et al., "Purification and Characterization of a Magnesium-dependent Neutral Sphingomyelinase from Bovine Brain," <i>J. Biol. Chem.</i> , <u>275</u> :7641-7647 (2000)
<u>LL</u>	A88	Betto, et al., "Sphingosylphosphocholine modulates the ryanodine receptor/calcium-release channel of cardiac sarcoplasmic reticulum membranes," <i>Biochem. J.</i> , <u>322</u> :327-333 (1997)
<u>LL</u>	A89	Bielawska, et al., "(1S, 2R)-D-erthro-2-(N-Myristoylamino)-1-phenyl-1-propanol as an Inhibitor of Ceramidase," <i>J. Biol. Chem.</i> , <u>271</u> :12646-12654 (1996)

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cc	A90	Bielawska, et al., "Ceramide Is Involved in Triggering of Cardiomyocyte Apoptosis Induced by Ischemia and Reperfusion," <i>Am. J. Pathol.</i> , <u>151</u> (5):1257-1263 (1997)
	A91	Boudker, et al., "Detection and Characterization of Ceramide-1-phosphate Phosphatase Activity in Rat Liver Plasma Membrane," <i>J. Biol. Chem.</i> , <u>268</u> :22150-22155 (1993)
	A92	Brady, et al., "The metabolism of sphingomyelin. II. Evidence of an enzymatic deficiency in Niemann-Pick disease," <i>Proc. Natl. Acad. Sci. USA</i> , <u>55</u> (2):366-369 (1966)
	A93	Brindley, et al., "Analysis of Ceramide 1-phosphate and Sphingosine-1-phosphate Phosphatase Activities," <i>Methods in Enzymology</i> , <u>311</u> :233-244 (1999)
	A94	Brownlee, C., "Intracellular signalling: sphingosine-1-phosphate branches out," <i>Current Biology</i> , <u>11</u> :R535-R538 (2001)
	A95	Burton, et al., "Human antibodies from combinatorial libraries," <i>Adv. Immunol.</i> , <u>57</u> :191-280 (1994)
	A96	Cain, et al., "Therapeutic Strategies to Reduce TNF- α Mediated Cardiac Contractile Depression Following Ischemia and Reperfusion," <i>J. Mol. Cell. Cardiol.</i> , <u>31</u> :931-947 (1999)
	A97	Caligan, et al., "A High-Performance Liquid Chromatographic Method to Measure Sphingosine 1-Phosphate and Related Compounds from Sphingosine Kinase Assays and Other Biological Samples," <i>Analytical Biochemistry</i> , <u>281</u> :36-44 (2000)
	A98	Chan, et al., "Ceramide Path in Human Lung Cell Death," <i>Am. J. Respir. Cell Mol. Biol.</i> , <u>22</u> :460-468 (2000)
	A99	Chan, et al., "Purification and Characterization of Neutral Sphingomyelinase from <i>Helicobacter pylori</i> ," <i>Biochemistry</i> , <u>39</u> :4838-4845 (2000)
	A100	Chatterjee, "Neutral Sphingomyelinase," <i>Advances in Lipid Research</i> , <u>26</u> :25-49 (1993)
	A101	Chatterjee, "Neutral Sphingomyelinase: past, present, and future," <i>Chemistry and Physics of Lipids</i> , <u>102</u> :79-96 (1999)
cc	A102	Chatterjee, et al., "Molecular Cloning, Characterization, and Expression of a Novel Human Neutral Sphingomyelinase," <i>J. Biol. Chem.</i> , <u>274</u> :37407-37412 (1999)

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ff	A103	Chau, et al., "Synthesis of Simple Aryl Neutral Sphingomyelinase Inhibitors," <i>Abstr. Pap. - Am. Chem. Soc.</i> , (2001)
	A104	Chun, "Lysophospholipid receptors: implications for neural signaling," <i>Crit. Rev. Neuro.</i> , 13(2):151-168 (1999)
	A105	Chun, et al., "A Growing Family of Receptor Genes for Lysophosphatidic Acid (LPA) and other Lysophospholipids (LPs)," <i>Cell Biochem. & Biophys.</i> , 30(2):213-242 (1999)
	A106	Cordis, et al., "HPTLC analysis of sphingomyelin, ceramide and sphingosine in ischemic/reperfused rat heart," <i>J. Pharm. And Biomed. Analysis</i> , 16:1189-1193 (1998)
	A107	Cuvillier, et al., "Suppression of ceramide-mediated programmed cell death by sphingosine-1-phosphate," <i>Nature</i> , 381:800-803 (1996)
	A108	Dickson, et al., "Serine Palmitoyltransferase," <i>Methods in Enzymology</i> , 311:1-9 (1999)
	A109	Edsall, et al., <i>Biochem.</i> , "N,N-Dimethylsphingosine is a potent competitive inhibitor of sphingosine kinase but not of protein kinase C: modulation of cellular levels of sphingosine 1-phosphate and ceramide," 37:12892-12898 (1998)
	A110	Edson, et al., "The Aminoglycosides," <i>Mayo Clin. Proc.</i> , 74:519-528 (1999)
	A111	Eichler, et al., "Peptide, peptidomimetic, and organic synthetic combinatorial libraries," <i>Med. Res. Rev.</i> , 15:481-496 (1995)
	A112	Fensome, et al., "A Neutral Magnesium-dependent Sphingomyelinase Isoform Associated with Intracellular Membranes and Reversibly Inhibited by Reactive Oxygen Species," <i>J. Biol. Chem.</i> , 275:1128-1136 (2000)
	A113	Fujii, et al., "Mg ²⁺ binding and catalytic function of sphingomyelinase from <i>Bacillus cereus</i> ," <i>J. Biochem (Tokyo)</i> , 124:1178-1187 (1998)
ff	A114	Fukushima, et al., "A single receptor encoded by <i>vzg-1/lpa/edg-2</i> couples to G proteins and mediates multiple cellular responses to lysophosphatidic acid," <i>Proc. Natl. Acad. Sci.</i> , 95:6151-6156 (1998)
ff	A115	Furneisen, et al., "Enzymological properties of the LPP1-encoded lipid phosphatase from <i>Saccharomyces cerevisiae</i> ," <i>Biochim. Biophys. Acta.</i> , 1484:71-82 (2000)

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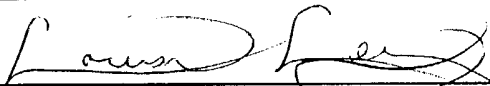
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cc	A116	Garcia-Ruiz, "Human placenta sphingomyelinase, an exogenous acidic pH-optimum sphingomyelinase, induces oxidative stress, glutathione depletion, and apoptosis in rat hepatocytes," <i>Hepatology</i> , <u>32</u> :56-65 (2000)
cc	A117	Gates, et al., "Serum amyloid p component: its role in platelet activation stimulated by sphingomyelinase d purified from the venom of the brown recluse spider (<i>Loxosceles reclusa</i>)," <i>Toxicon</i> , <u>28</u> :1303-1315 (1990)
	A118	Gatt, et al., "Niemann Pick disease: presence of the magnesium-dependent sphingomyelinase in brain of the infantile form of the disease," <i>J. Neurochem.</i> , <u>31</u> (2):547-550 (1978)
	A119	Gavrilenko, et al., "Nucleotide sequence of phospholipase C and sphingomyelinase genes from <i>Bacillus cereus</i> BKM-B164," <i>Bioorg. Khim.</i> , <u>19</u> :133-138 (1993)
	A120	Geeraert, et al., "Conversion of dihydroceramide into ceramide: involvement of a desaturase," <i>Biochem. J.</i> , <u>327</u> :125-132 (1997)
	A121	Ghosh, et al., "Effects of gentamicin on sphingomyelinase activity in cultured human renal proximal tubular cells," <i>J. Biol. Chem.</i> , <u>262</u> :12550-12556 (1987)
	A122	Ghosh, et al., "Identification, partial purification, and localization of a neutral sphingomyelinase in rabbit skeletal muscle: Neutral sphingomyelinase in skeletal muscle," <i>Mol. Cellular Biochem.</i> , <u>189</u> :161-168 (1998)
	A123	Gilmore, et al., "A <i>Bacillus cereus</i> cytolytic determinant, cereolysin AB, which comprises the phospholipase C and sphingomyelinase genes: a nucleotide sequence and genetic linkage," <i>J. Bacteriol.</i> , <u>171</u> (2):744-753 (1989)
	A124	Glickman, et al., "Molecular Cloning, Tissue-Specific Expression, and Chromosomal Localization of a Novel Nerve Growth Factor-Related G-Protein-Coupled Receptor, nrg-1," <i>Mol. Cel. Neurosci.</i> , <u>14</u> :141-152 (1999)
	A125	Goetzl, et al., "Eicosanoids and Other Bioactive Lipids in Cancer, Inflammation, and Radiation Injury, 4. 38: A Subfamily of G Protein-Coupled Cellular Receptors for Lysophospholipids and Lysosphingolipids, Introduction: The Biochemistry and Biology of Lipid Phosphoric Acids," <i>Adv. Exp. Med. Biol.</i> , <u>469</u> :259-264 (1999)
	A126	Gonda, et al., "The novel sphingosine 1-phosphate receptor AGR16 is coupled via pertussis toxin-sensitive and -insensitive G-proteins to multiple signalling pathways," <i>Biochem. J.</i> , <u>337</u> :67-75 (1999)
	A127	Gonzalez-Zorn, et al., "The smcL gene of <i>Listeria ivanovii</i> encodes a sphingomyelinase C that mediates bacterial escape from the phagocytic vacuole," <i>Mol. Microbiol.</i> , <u>33</u> (3):510-523 (1999)
cc	A128	Graler, et al., "EDG6, a Novel G-Protein-Coupled Receptor Related to Receptors for Bioactive Lysophospholipids, Is Specifically Expressed in Lymphoid Tissue," <i>Genomics</i> , <u>53</u> :164-169 (1998)

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ll	A129	Gunther, "Myocardial contractility after infarction and carnitine palmitoyltransferase I inhibition in rats," <i>Eur. J. Pharma.</i> , 406:123-126 (2000)
	A130	Hakogi, et al., "Stereocontrolled synthesis of a sphingomyelin methylene analogue as a sphingomyelinase inhibitor," <i>Org. Lett.</i> , 2:2627-2629 (2000)
	A131	Hanada, et al., "Specificity of Inhibitors of Seine Palmitoyltransferase (SPT), a Key Enzyme in Sphingolipid Biosynthesis, in Intact Cells," <i>Biochemical Pharmacology</i> , 59:1211-1216 (2000)
	A132	Hannun, et al., "Ceramide in the eukaryotic stress response," <i>Cell Biology</i> , 10:73-80 (2000)
	A133	Hannun, et al., "The Sphingomyelin Cycle: A Prototypic Sphingolipid Signaling Pathway," <i>Adv. Lipid Res.</i> , 25:27-41 (1993)
	A134	Hannun, et al., "Functions of Sphingolipids and Sphingolipid Breakdown Products in Cellular Regulation," <i>Science</i> , 243:500-507 (1989)
	A135	He, et al., "A Fluorescence-Based High-Performance Liquid Chromatography Assay to Determine Acid Ceramidase Activity," <i>Analytical Biochemistry</i> , 274:264-269 (1999)
	A136	Heringdorf, et al., "Stimulation of intracellular sphingosine-1-phosphate production by G-protein-coupled sphingosine-1-phosphate receptors," <i>Eur. J. Pharmacol.</i> , 414:145-154 (2001)
	A137	Hernandez, et al., "Rapid Activation of Neutral Sphingomyelinase by Hypoxia-Reoxygenation of Cardiac Myocytes," <i>Circ. Res.</i> , 86:198-204 (2000)
	A138	Hetland, et al., "Phospholipase C from <i>Bacillus cereus</i> has sphingomyelinase activity," <i>Scand J. Clin Lab Invest</i> , 42(1):57-61 (1982)
	A139	Higuchi, et al., "Acidic Sphingomyelinase-Generated Ceramide Is Needed But Not Sufficient for TNF-Induced Apoptosis and Nuclear Factor- κ B Activation," <i>J. Immunol.</i> , 157:297-304 (1996)
	A140	Hinkovska-Glacheva, et al., "Activation of a Plasma Membrane-Associated Neutral Sphingomyelinase and Concomitant Ceramide Accumulation During IgC-Dependent Phagocytosis in Human Polymorphonuclear Leukocytes," <i>Blood</i> , 91:4761-4769 (1998)
ll	A141	Hise, et al., "Fatty Acyl Chain Composition in the Determination of Renal Membrane Order," <i>J. Clin. Invest.</i> , 77(3):768-773 (1986)

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FL	A142	Hla, et al., "An Abundant Transcript Induced in Differentiating Human Endothelial Cells Encodes a Polypeptide with Structural Similarities to G-Protein-coupled Receptors," <i>J. Biol. Chem.</i> , <u>265</u> (16):9308-9313 (1990)
	A143	Hofmann, et al., "Cloning and characterization of the mammalian brain-specific, Mg ²⁺ -dependent neutral sphingomyelinase," <i>PNAS</i> , <u>97</u> :5895-5900 (2000)
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	A145	Holopainen, et al., "Sphingomyelinase Activity Associated with Human Plasma Low Density Lipoprotein," <i>J. Biol. Chem.</i> , <u>275</u> :16484-16489 (2000)
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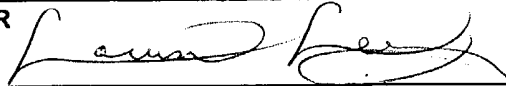
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AC	A155	Im, et al., "Molecular Cloning and Characterization of a Lysophosphatidic Acid Receptor, Edg-7, Expressed in Prostate," <i>Molecular Pharmacology</i> , <u>57</u> :753-759 (2000)
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	A162	Kajstura, et al., "Apoptotic and Necrotic Myocyte Cell Deaths Are Independent Contributing Variables of Infarct Size in Rats," <i>Lab. Invest.</i> , <u>74</u> :86-107 (1996)
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	A164	Katircioglu, et al., "Myocardial preservation in acute coronary artery occlusion with coronary sinus retroperfusion and carnitine," <i>J. Cardiovasc. Surg.</i> , <u>41</u> :45-50 (1999)
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	A166	Kester, "Sphingolipid Metabolites and the Cellular Phenotype," <i>Trends in Glycoscience and Glycotechnology</i> , <u>9</u> :447-460 (1997)
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ll	A168	Kimura, et al., "Two Novel <i>Xenopus</i> Homologs of Mammalian LPEDG-2 Function as Lysophosphatidic Acid Receptor. <i>Xenopus</i> Oocytes and Mammalian Cells," JBC Papers in Press Published on-line 02/05/2001 as Manuscript MO11588200
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<u>EA</u>	A181	Levade, et al., "Sphingomyelinases and Niemann-Pick disease," <i>J. Clin. Chem. Biochem.</i> , <u>24</u> :205-220 (1986)
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<u>LL</u>	A207	Mao, et al., "Cloning and Characterization of a Novel Human Alkaline Ceramidase: A Mammalian Enzyme That Hydrolyzes Phytoceramide," <i>J. Biol. Chem.</i> , <u>276</u> :26577-26588 (2001)
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<u>CC</u>	A220	Mingeot-Leclercq, et al., "Aminoglycosides: nephrotoxicity," <i>Antimicrobial Agents and Chemotherapy</i> , <u>43</u> :1003-1012 (1999)
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<u>CC</u>	A232	Okazaki, et al., "Characteristics and partial purification of a novel cytosolic magnesium-independent, neutral sphingomyelinase activated in the early signal transduction of 1 α ,25-dihydroxyvitamin D3-induced HL-60 cell differentiation," <i>J. Biol. Chem.</i> , <u>269</u> (6):4070-4077 (1994)

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LL	A246	Sabbadini, et al., "Sphingosine is endogenous to cardiac and skeletal muscle," <i>Biochem. Biophys. Res. Comm.</i> : 193:752-758 (1993)
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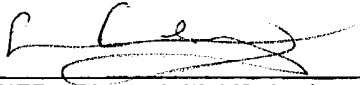
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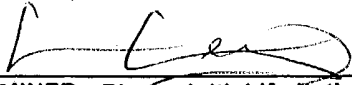
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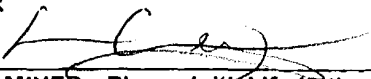
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